

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) <u>Prior Application:</u>
)
Wendelin FRICK et al.) Group Art Unit: 1626
)
1.53(b) Continuation of U.S. Appl. No.) Examiner: D. Lambkin
10/201,050, filed July 24, 2002)
)
Filed: Filed Herewith)

For: BENZOTHIEPINE 1,1-DIOXIDE DERIVATIVES, A PROCESS FOR THEIR
PREPARATION, PHARMACEUTICALS COMPRISING THESE COMPOUNDS,
AND THEIR USE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Information Disclosure Statement Under 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed together with this continuation application.

Copies of most listed documents were made of record in Application No. 10/201,050, filed July 24, 2002, upon which applicant relies for the benefits provided in 35 U.S.C. § 120. A copy of an additional document, US 2003/0017996 A1, is attached. Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

The following comments relate to the cited non-English language documents:

1. FR 2 661 676: A Derwent Abstract of this document was made of record in the earlier application.

2. FR 2 698 873: A Derwent Abstract of this document was made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent Nos. 5,602,152 and 5,652,252, copies of which were made of record in the earlier application.

3. DE 2 011 806: A Derwent Abstract of this document was made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent Nos. 3,758,528 and 3,821,249, copies of which were made of record in the earlier application.

4. SU 550982: A Derwent Abstract of this document was made of record in the earlier application. A translation of the claim of this document was also made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent Nos. 3,770,728 and 3,853,915, copies of which were made of record in the earlier application.

5. SU 591146: A Derwent Abstract of this document was made of record in the earlier application. A translation of the claims of this document was also made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent Nos. 3,954,764 and 4,044,010, copies of which were made of record in the earlier application.

6. SU 506297: A Derwent Abstract of this document was made of record in the earlier application. A translation of the claim of this document was also made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent No. 4,237,296, a copy of which was made of record in the earlier application.

7. EP 0 067 086: A Derwent Abstract of this document was made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent No. 4,436,749, a copy of which was made of record in the earlier application.

8. EP 0 350 846: A Derwent Abstract of this document was made of record in the earlier application. English language claims appear on pages 34-42 of the document. This document is also believed to be a counterpart of U.S. Patent Nos. 5,037,825, 5,300,522, 5,164,387 and 5,420,273, copies of which were made of record in the earlier application.

9. EP 0 922 703: A Derwent Abstract of this document was made of record in the earlier application. This document is also believed to be a counterpart of U.S. Patent No. 6,013,809, a copy of which was made of record in the earlier application.

10. Bohme, H. and Haack, B., "[Derivatives of 1,3,4,5-tetrahydro-2-benzothiepin with a basic side chain in the 1-position]," *Arch. Pharm. Ber. Dtsch. Pharm. Ges.* 302(1):72-74 (1969): An English language abstract appears on the first page of this document.

11. Hofmann, H. and Dickert, F., "The dynamic behavior of the 1-methyl-1-benzothiepinium ring system," *Z. Naturforsch. B. Anorg. Chem. Org. Chem.* 36(8):974-977 (1981): An English language abstract appears on the first page of the document.

12. Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxxiv. A simple synthesis of 1-benzoxepine and 1-benzothiepine," *Z. Naturforsch. B* 44(2):220-224 (1989): An English language abstract appears on the first page of the document.

13. Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxviii. - on 5-acetoxy-and 5-methoxy-1-benzothiepine and analogous 1-benzoxepines," *Liebigs Ann. Chem.* 3:599-604 (1985): An English language abstract appears on the first page of the document.

14. Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxxi. - the photochemical behaviour of monosubstituted 1-benzothiepinines," *Liebigs Ann. Chem.* 505-508 (1987): An English language abstract appears on the first page of the document.

15. Hofmann, H. and Heidrich, R., "Heterocyclic seven-membered ring compounds, xxiv. Photochemical reaction of 2-methyl-4-phenyl-1-benzothiepins," *Z. Naturforsch. B. Anorg. Chem. Org. Chem.* 37(10):1344-1345 (1982): An English language abstract appears on the first page of the document.

16. Hofmann, H. and Heidrich, R., "Heterocyclic Seven-Membered Ring Compounds XXIII. Synthesis and Thermolytic Behavior of 2-Methyl-4-Phenyl-1-benzothiepins" *Z. Naturforsch. B* 34(8):1145-1148 (1979): An English language abstract appears on the first page of the document.

17. Hofmann, H. and Loew, G., "Heterocyclic seven-membered ring compounds, xxvii. Synthesis and thermal reactivity of 1,2-dimethyl-4-phenyl-1-benzothiepinium salts," *Z. Naturforsch. B Anorg. Chem. Org. Chem.* 39(7):985-989 (1984): An English language abstract appears on the first page of the document.
18. Hofmann, H., et al., "Heterocyclic seven-membered ring compounds, xxv - synthesis and thermolysis of substituted 1-methyl-4-phenyl-1-benzothiepinium salts," *Liebigs Ann. Chem.* 3:425-432 (1983): An English language abstract appears on the first page of the document.
19. Journal Bioorganicheskaya khimiya, (Bioorganic chemistry), Publisher Nauka, Academy of Sciences of the USSR, v. 9, No 10, 1983, pp. 1357-1358: A partial translation of the document was made of record in the earlier application.
20. Journal of organic chemistry, Publisher Nauka, Russian Academy of Sciences, v. 34, issue 3, p. 324, 1998: A partial translation of the document was made of record in the earlier application.
21. Khimiko-farmatsevticheskij zhurnal, (Chemical - and - pharmaceutical journal), 1984, v. XVIII, No 9, pp. 1105-1110: A partial translation of the document was made of record in the earlier application.
22. Khimiko-farmatsevticheskij zhurnal, (Chemical - and - pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1985, v. XIX, No 9, pp. 1080-1086: A partial translation of the document was made of record in the earlier application.
23. Khimiko-farmatsevticheskij zhurnal, (Chemical - and - pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1985, v. XIX, No 9, pp. 1057-1060: A partial translation of the document was made of record in the earlier application.
24. Khimiko-farmatsevticheskij zhurnal, (Chemical - and - pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1982, v. XVI, No 2, pp. 173-176: A partial translation of the document was made of record in the earlier application.

25. Khimiko-farmatsevticheskij zhurnal, (Chemical - and - pharmaceutical journal), Moscow, Meditsina, Ministry of medical and microbiological industry of the USSR, 1988, No 8: A partial translation of the document was made of record in the earlier application.

26. Provita, M., "Neurotropic and psychotropic drugs," *Pharm. Ind.* 32(10A):923-935 (1970): The document discloses a number of chemical formulas that are understandable apart from the language of the document.

27. Rehse, K. and Bienfait, R., "Anticoagulante eigenschaften heterocyclischer 1,3-diketone [Anticoagulant activities of heterocyclic 1,3-diones]," *Archiv. der Pharmazie (Weinheim)* 317(5):385-393 (1984): An English language abstract appears on the first page of the document.

28. Viou, F., Thesis, Syntheses d'heterocycles derives du disubstitue-3,4-benzenethiol a potentialite anti-allergique [Synthesis of heterocycles derived from 3,4-disubstituted benzenethiol, potent antiallergics,] Montpellier Univ., France (1986): The document discloses a number of chemical formulas and syntheses that are understandable apart from the language of the document.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.


Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: June 27, 2003

By: 
Steven J. Scott
Reg. No. 43,911

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
		US 2002/0032329 A1	Mar. 14, 2002	Babiak et al.			
		US 2002/0061888 A1	May 23, 2002	Keller et al.			
		US 2003/0017996 A1	Jan. 23, 2003	Frick et al.			
		3,287,370	Nov. 22, 1966	Mohrbacher et al.			
		3,389,144	June 18, 1968	Mohrbacher et al.			
		3,520,891	July 21, 1970	Mohrbacher et al.			
		3,694,446	Sep. 26, 1972	Houlihan et al.			
		3,758,528	Sep. 11, 1973	Malen et al.			
		3,770,728	Nov. 6, 1973	Bourquin et al.			
		3,821,249	June 28, 1974	Malen et al.			
		3,853,915	Dec. 10, 1974	Bourquin et al.			
		3,928,383	Dec. 23, 1975	Kaplan et al.			
		3,954,764	May 4, 1976	Gerecke et al.			
		4,044,010	Aug. 23, 1977	Gerecke et al.			
		4,045,570	Aug. 30, 1977	Dörhöfer et al.			
		4,153,612	May 8, 1979	McCall			
		4,185,109	Jan. 22, 1980	Rosen			
		4,207,239	June 10, 1980	McCall			
		4,237,296	Dec. 2, 1980	Gadient			
		4,247,553	Jan. 27, 1981	McCall			
		4,251,526	Feb. 17, 1981	McCall			
		4,436,749	Mar. 13, 1984	Hatinguais et al.			
		5,037,825	Aug. 6, 1991	Klaus et al.			
		5,158,943	Oct. 27, 1992	Sohda et al.			
		5,164,387	Nov. 17, 1992	Klaus et al.			
		5,169,857	Dec. 8, 1992	Angerbauer, R., et al.			
		5,300,522	Apr. 5, 1994	Klaus et al.			

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate
		5,420,273	May 30, 1995	Klaus et al.			
		5,430,116	July 4, 1995	Kramer et al.			
		5,491,152	Feb. 13, 1996	Wilde et al.			
		5,547,975	Aug. 20, 1996	Talley et al.			
		5,594,001	Jan. 14, 1997	Teleha et al.			
		5,602,152	Feb. 11, 1997	Berthelone et al.			
		5,652,252	July 29, 1997	Berthelon et al.			
		5,670,532	Sep. 23, 1997	Talley et al.			
		5,886,016	Mar. 23, 1999	Talley et al.			
		5,994,391	Nov. 30, 1999	Lee et al.			
		5,998,400	Dec. 7, 1999	Brieaddy L., et al.			
		6,013,809	Jan. 11, 2000	Zimmer et al.			
		6,083,977	July 4, 2000	Boehm et al.			
		6,107,494	Aug. 22, 2000	Lee et al.			
		6,143,755	Nov. 7, 2000	Bocan			
		6,180,660	Jan. 30, 2001	Whitney et al.			
		6,221,897	Apr. 24, 2001	Frick et al.			
		6,235,771	May 22, 2001	Shiraishi et al.			
		6,262,277	July 17, 2001	Lee et al.			
		6,268,392	July 31, 2001	Keller et al.			
		6,277,831	Aug. 21, 2001	Frick et al.			
		6,369,220	Apr. 9, 2002	Li et al.			
		6,387,924	May 14, 2002	Lee et al.			
		6,387,944	May 14, 2002	Frick et al.			
		6,420,417	July 16, 2002	Keller et al.			
		6,441,022	Aug. 27, 2002	Frick et al.			

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

FOREIGN PATENT DOCUMENTS							
		Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
		WO 02/08211	Jan. 31, 2002	PCT			
		WO 01/68637	Sep. 20, 2001	PCT			
		WO 00/38725	July 6, 2000	PCT			
		WO 00/01687	Jan. 13, 2000	PCT			
		WO 99/32478	July 1, 1999	PCT			
		WO 98/55118	Dec. 10, 1998	PCT			
		WO 98/40375	Sep. 17, 1998	PCT			
		WO 98/38182	Sep. 3, 1998	PCT			
		WO 97/33882	Sep. 18, 1997	PCT			
		WO 96/16051	May 30, 1996	PCT			
		WO 96/08484	Mar. 21, 1996	PCT			
		WO 93/16055	Aug. 19, 1993	PCT			
		FR 2661676	Nov. 8, 1991	France			
		FR 2698873	June 10, 1994	France			
		DE 2,011,806	Oct. 15, 1970	Germany			
		UK 1211258	Nov. 4, 1970	United Kingdom			
		UK 1428110	Mar. 17, 1976	United Kingdom			
		SU 550982	Mar. 15, 1977	Soviet Union			
		SU 591146	Jan. 30, 1978	Soviet Union			
		SU 506297	Mar. 5, 1976	Soviet Union			
		EP 0067086	Dec. 15, 1982	Europe			
		EP 0250265	Dec. 23, 1987	Europe			
		EP 0350846	Jan. 17, 1990	Europe			
		EP 0508425	Oct. 14, 1992	Europe			
		EP 0781278	July 2, 1997	Europe			
		EP 0791592	Aug. 27, 1997	Europe			
		EP 0922703	June 16, 1999	Europe			

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Ali, M., et al., "Reactions with 2,3,4,5-Tetrahydro-benzo (B) Thiepin-5-One and Its Derivatives," <i>J. Prakt. Chem.</i> 316(2):259-266 (1974)
	Almena J. et al, "Reductive Opening of Thiophthalan: A New Route to Functionalised Sulfur-Containing Compounds.", <i>J. Org. Chem.</i> , vol. 61, pp.1859-1862, 1996
	Baumgarth M. et al, "Bicyclic Acylguanidine Na ⁺ /H ⁺ Antiporte Inhibitors", <i>J. Med. Chem.</i> Vol. 41, pp.3736-3747, 1998
	Bentley, K. W. et al., "Pharmaceutical Antihypertensive and Vasodilator Compositions", <i>Chemical Abstracts</i> , vol. 85, p.516, (1976)
	Berthelon et al., "Benzoxepinopyridine derivatives," <i>Chemical Abstracts</i> , vol. 121, p. 1161 (1994)
	Bohme, H. and Haack, B., "[Derivatives of 1,3,4,5-tetrahydro-2-benzothiepin with a basic side chain in the 1-position]," <i>Arch. Pharm. Ber. Dtsch. Pharm. Ges.</i> 302(1):72-74 (1969)
	Braun et al. "2,3,4,5,6-Penta-O-Acetyl-D-Gluconic Acid and 2,3,4,5,6-Penta-O-Acetyl-D-Gluconyl Chloride," <i>Organic Synthesis</i> , vol. 5, pp. 887-891 (1973)
	Chatterjee, A., et al., "Ring contraction of some 1-benzothiepin derivatives to 1-benzothiophens," <i>J. Chem. Soc. Perkin Trans.</i> 1:1707-1711 (1981)
	Corelli F. et al., "Diltiazem-like Calcium Entry Blockers: A Hypothesis of the Receptor-Binding Site Based on a Comparative Molecular Field Analysis Model.", <i>J. Med. Chem.</i> , vol. 40, pp. 125-131, 1997
	Deshayes C. et al. "Synthesis of some 4-Acetyl-3,5-dioxo-2,3,4-tetrahydro[1]benzoxepine or Benzothiepine and 6-Acetyl-5,7-dioxo-6,7,8,9-tetrahydro-5H-benzocycloheptene Derivatives", <i>J. Heterocyclic Chem.</i> , vol. 22, No. 6, pp.1659-1662, (1985)
	Ferrari, R., et al., "How do calcium antagonists differ in clinical practice?," <i>Cardiovascular drugs and therapy</i> 8:565-575 (1994)
	Hofmann, H. and Dickert, F., "The dynamic behaviour of the 1-methyl-1-benzothiepinium ring system," <i>Z. Naturforsch. B Anorg. Chem. Org. Chem.</i> 36(8):974-977 (1981)
	Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxxiv. A simple synthesis of 1-benzoxepine and 1-benzothiepine," <i>Z. Naturforsch. B</i> 44(2):220-224 (1989)
	Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxviii. - on 5-acetoxy-and 5-methoxy-1-benzothiepine and analogous 1-benzoxepines," <i>Liebigs Ann. Chem.</i> 3:599-604 (1985)
	Hofmann, H. and Djafari, H., "Heterocyclic seven-membered ring compounds, xxxi. - the photochemical behaviour of monosubstituted 1-benzothiepins," <i>Liebigs Ann. Chem.</i> 505-508 (1987)
	Hofmann, H. and Heidrich, R., "Heterocyclic seven-membered ring compounds, xxiv. Photochemical reaction of 2-methyl-4-phenyl-1-benzothiepins," <i>Z. Naturforsch. B. Anorg. Chem. Org. Chem.</i> 37(10):1344-1345 (1982)

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Hofmann, H. and Heidrich, R., "Heterocyclic Seven-Membered Ring Compounds XXIII. Synthesis and Thermolytic Behavior of 2-Methyl-4-Phenyl-1-benzothiepins" <i>Z. Naturforsch. B</i> 34(8):1145-1148 (1979)
	Hofmann, H. and Loew, G., "Heterocyclic seven-membered ring compounds, xxvii. Synthesis and thermal reactivity of 1,2-dimethyl-4-phenyl-1-benzothiepinium salts," <i>Z. Naturforsch. B Anorg. Chem. Org. Chem.</i> 39(7):985-989 (1984)
	Hofmann, H., et al., "Heterocyclic seven-membered ring compounds, xxv - synthesis and thermolysis of substituted 1-methyl-4-phenyl-1-benzothiepinium salts," <i>Liebigs Ann. Chem.</i> 3:425-432 (1983)
	Hofmann, H., et al., "Synthesis of stable 1-benzothiepins," <i>Angew Chem. Int. Ed. Engl.</i> 11(5): 423-424 (1972)
	Huckle et al., "4-Amino-2,3,4,5-tetrahydro-1-benzoxepin-5-ols , 4-Amino-2,3,4,5-tetrahydro-1-benzothiepin-5-ols and related compounds," <i>J. Chem. Soc. C</i> 12:2252-2260 (1971)
	Ishino Y. et al., "Novel Synthesis of 4,5-Bis(arylthio)-2,3,4,5-tetrahydro-1-benzothiepins: Noteworthy Cyclization by the Reaction of 2-Butynedion with Arenethiols in the Presence of Zinc Iodide.", Communications, pp.827-829, 1987
	Jilek J. et al., "8-Chloro and 8-Methylthio Derivatives of 10-Piperazino-10,11-Dihydrodisenzo[b,f]Thiepins; New Compounds and New Procedures", <i>Neurotropic and Psychotropic Agents: Part CLXXVII</i> , Journal 48, pp. 906-927, (1983)
	Journal Bioorganicheskaya khimiya, (Bioorganic chemistry), Publisher Nauka, Academy of Sciences of the USSR, v. 9, No 10, 1983, pp. 1357-1358 and partial translation
	Journal of organic chemistry, Publisher Nauka, Russian Academy of Sciences, v. 34, issue 3, p. 324, 1998 and partial translation
	Khimiko-farmatsevticheskij zhurnal, (Chemical – and – pharmaceutical journal), 1984, v. XVIII, No 9, pp.1105-1110, and partial translation
	Khimiko-farmatsevticheskij zhurnal, (Chemical – and – pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1985, v. XIX, No 9, pp. 1080-1086 and partial translation
	Khimiko-farmatsevticheskij zhurnal, (Chemical – and – pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1985, v. XIX, No 9, pp. 1057-1060 and partial translation
	Khimiko-farmatsevticheskij zhurnal, (Chemical – and – pharmaceutical journal), Moscow, Meditsina, Ministry of medical industry of the USSR, monthly science-engineering and production journal, 1982, v. XVI, No 2, pp. 173-176 and partial translation
	Khimiko-farmatsevticheskij zhurnal, (Chemical – and – pharmaceutical journal), Moscow, Meditsina, Ministry of medical and microbiological industry of the USSR, 1988, No 8, and partial translation
	Kramer W. et al., "Bile Acid Derived HMG-CoA reductase inhibitors", <i>Biochimica et Biophysica Acta</i> 1227, pp.137-154, (1994)

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Kvis F. et al., "Benzocycloheptenes and Heterocyclic Analogues as Potential Drugs. VII. 4-Phenyl-2,3,4,5-Tetrahydro-1-Benzothiepins and some related compounds.", Collection Czechoslov. Chem. Comm., vol. 37, pp. 3808-3816, 1972
	Lenz G.R., "The Synthesis of the Isoquinoline Alkaloid Calycotomine via Functionalization of Enamide Double Bonds", Department of Medical Chemistry, G.D. Searle & Company, Heterocycles, vol. 26, No. 3, pp.721-730, (1987)
	Menozzi G. et al., "Reaction of Ketenes with <i>N,N</i> -Disubstituted α -Aminomethyleneketones. XVII. Synthesis of 2 <i>H</i> -[1]Benzothiepine[5,4- <i>b</i>]pyran Derivatives", J. Heterocyclic Chem. Vol. 23, pp. 449-454, (1986)
	Menozzi G. et al., "Reaction of Sulfoxes with Heterocyclic <i>N,N</i> -Disubstituted α -Aminomethyleneketones. XII. Synthesis of [1]Benzothiepine[5,4- <i>e</i>] [1,2]oxathiepin Derivatives", J. Heterocyclic Chem. Vol. 23, pp. 455-458, (1986)
	Murata, I., "Some new aspects of thiepine and thiazepine chemistry," <i>Phosphorus, Sulfur Silicon Relat. Elem.</i> 43(3-4):243-260 (1989)
	Nakao, S. et al., "4-(Aminomethyl)-2,3-dihydro-1-benzothiepins as Cardiovascular Agents", Chemical Abstracts, vol. 114, p. 825, (1991)
	Nakao S. et al, "Studies on the Synthesis of Condensed Pyridazine Derivatives. IV. Synthesis and Anxiolytic Activity of 2-Aryl-5,6-dihydro-(1)Benzothiepine[5,4- <i>c</i>]pyridazin-3(2 <i>H</i>)-ones and Related Compound, Chem. Pharm. Bull. Vol 39 No. 10, 2556-2563, (1991)
	Nagamatsu T. et al, "Polycyclic <i>N</i> -Hetero Compounds. XXXVII. A Convenient Synthesis and Evaluation of Anti-platelet Aggregation Activity of 1,2,4,5-Tetrahydro[1]-benzothiepine[5,4- <i>e</i>]imidazo[1,2- <i>c</i>]pyrimidine and its Related Compounds.", <i>Journal of Heterocyclic Chemistry</i> , vol. 28, pp.513-515, 1991
	Oda T. et al., "Synthesis of Novel 2-Benzothiepyran and 3-Benzothiepin Derivatives and Their Stimulatory Effect on Bone Formation", J. Med. Chem., vol. 42, pp. 751-760, 1999
	Patra R., et al., "Conformational and Steric Requirements of the Side Chain for Sulphur Participation in Benzothiepin Derivatives", <i>Tetrahedron Letters</i> , vol. 30, pp. 4279-4282, 1989
	Protiva, M., "Neurotropic and psychotropic drugs," <i>Pharm. Ind.</i> 32(10A):923-935 (1970)
	Pye C. et al., "Examination of the Valence Tautomers Benzene Oxide and Oxepin and Two Derivative Systems by <i>ab Initio</i> Methods", J. Phys. Chem. A, pp. 3371-3376, (1997)
	Rehse, K. and Bienfait, R., "Anticoagulant eigenschaften heterocyclischer 1,3-diketone [Anticoagulant activities of heterocyclic 1,3-diones]," <i>Archiv. der Pharmazie (Weinheim)</i> 317(5):385-393 (1984)
	Ricci A., et al., "New heterocyclic systems, IV. Derivatives of (1) Benzothiepine," <i>Gazz. Chim. Ital.</i> 107(1-2):19-26 (1977)
	Shafiee A. et al., "Chemistry of 1,2,3-Thiadiazole. IV. Synthesis of [1]Benzoxepino-[3,4- <i>d</i>] [1,2,3]thiadiazole, [1]Benzothiepine[5,4- <i>e</i>] [1,2,3]thiadiazole, [1]Benzoxepino[4,3- <i>d</i>]oxazole and [1]Benzoxepino[3,4- <i>d</i>]oxazole. Four Novel Heterocycles", J. Heterocyclic Chem. Vol. 18. PP.899-903. (1981)

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Sindelar K. et al., "Dibenzo[b,f]Thiepin-10-Carbonitrile, ITS 10,11-Hydro Derivate Some Transformation Products and Related Compounds", Neurotropic and Psychotropic Agents, Part CLXXX, Journal 48, 1173, pp. 1187-1211, (1983)
	Sindelar K. et al., "Benzocycloheptenes and Heterocyclic Analogues as Potential Drugs. III. Further Synthetic Experiments in the Series of 1-Benzothiepin Derivatives.", Collection Czechoslov. Chem. Comm., vol. 37, pp.1195-1206, 1972
	Sindelar K. et al., "Neurotropic and Psychotropic Compounds. XXIX. Derivatives of 2,3,4,5-Tetrahydro-1-Benzothiepin.", Collection Czechoslov. Chem. Commun., vol. 33, pp.4315-4327, 1968
	Solladie G. et al., "A New Family of Enantiomerically Pure Smectic C* Liquid Crystals with a Bridged Chiral Biphenyl Core.", J. Org. Chem., vol. 63, pp. 3895-3898, 1998
	Takada T., "Oxidative Biaryl Coupling Reaction of Phenol Ether Derivatives Using a Hypervalent Iodine (III) Reagent.", J. Org. Chem., vol. 63, pp. 7698-7706, 1998
	Talley J.J., "Discovery of the COX-2 inhibitor Celebrex", Nippon Yakugakkai Nenka I Koen Yoshishu, vol. 120, no. 1, p. 80 (2000)
	Tamura Y et al., "Rearrangement of 4-Oxothiochroman-1-yl(bismethoxycarbonyl)methanides to Tetrahydro-1-Benzothiepin-5-ones", J.C.S. Perkin I, pp.2978-2981, (1981)
	Traynelis, V., et al., "Seven-Membered Heterocycles, III. Homoallylic Resonance and a Unique Sulfur Extrusion Reaction in Seven-Membered Sulfur Heterocycles", Vol. 29, pp1092-1097, (1964)
	Traynelis V., et al., "Seven-membered heterocycles, viii. 1-benzothiepin sulfoxides and a convenient synthesis of sulfoxides," J. Org. Chem. 38(23):3986-3990 (1973)
	Traynelis, V., et al., "Seven-membered heterocycles, ix. Synthesis and properties of some 5-alkyl and -aryl derivatives of 1-benzothiepin," J. Org. Chem., 43(17):3379-3384 (1978)
	Traynelis, V., et al., "Seven-membered heterocycles, vii. The synthesis and properties of 1-benzothiepin and its chlorinated derivatives," J. Org. Chem. 38(23):3978-3986 (1973)
	Traynelis, V., et al., "Seven-Membered Heterocycles VI. 4-Alkylidene-1-Benzothiepin—(2H)-ones and the Reaction of Halogenated 3,4-Dihydro-1-Benzothiepin-5(2H)-ones with Base ¹⁻³ ", J. Org. Chem., Vol. 38, No. 15, pp.2629-2637, (1973)
	Vejdelek, Z. and Protiva, M., "Synthetic experiments aiming at 1,2,4,5-tetrahydro-3-benzothiepin derivatives," Collect. Czech. Chem. Commun. 55(9):2351-2356 (1990)
	Viou, F., Thesis, Syntheses d'heterocycles derives du disubstitue-3,4-benzenethiol a potentialite anti-allergique [Synthesis of heterocycles derived from 3,4-disubstituted benzenethiol, potent antiallergics,] Montpellier Univ., France (1986)
	Wess G. et al., "Synthesis and Biological Activity of Bile Acid-Derived HMG-CoA Reductase Inhibitors. The Role of 21-Methyl in Recognition of HMG-CoA Reductase and the Ileal Bile Acid Transport System", J. Med. Chem., pp. 3240-3246, (1994)
	Derwent Abstract of FR 2,661,676

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	02481.1631-03	Appln. No.	Unassigned
Applicant	Wendelin Frick et al.		
Filing Date	Filed Herewith	Group:	Unassigned

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Derwent Abstract of FR 2,698,873
	Derwent Abstract of DE 2011806
	Derwent Abstract of SU 550982
	Derwent Abstract of SU 506297
	Derwent Abstract of SU 591146
	Derwent Abstract of EP 67086
	Derwent Abstract of EP 350846
	Derwent Abstract of EP 922703

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce